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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PS-45 SERIES

Jameco Part Number 213701 (PS-45-48)

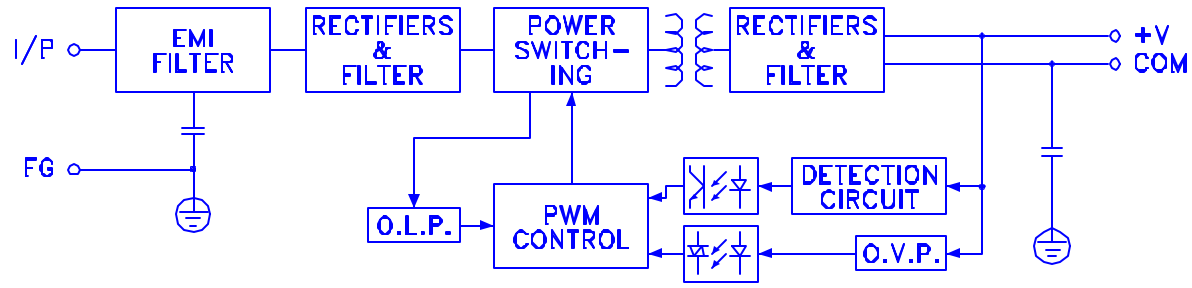
- .LOW COST, HIGH RELIABILITY
- .COMPACT SIZE, LIGHT WEIGHT
- .105°C OUTPUT CAPACITOR
- .100% FULL LOAD BURN-IN TEST
- .INTERNATIONAL AC INPUT RANGE
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL / SPECIFICATION	PS-45-3.3	PS-45-5	PS-45-7.5	PS-45-12	PS-45-13.5	PS-45-15	PS-45-24	PS-45-27	PS-45-48
DC OUTPUT VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE	±3%	±3%	±3%	±2%	±2%	±2%	±2%	±2%	±2%
OUTPUT RATED CURRENT	8A	8A	5.4A	3.7A	3.3A	3A	1.9A	1.7A	1A
OUTPUT MIN. CURRENT	0A	0A	0A	0A	0A	0A	0A	0A	0A
OUTPUT MAX. CURRENT	10.7A	10.5A	7A	4.4A	3.9A	3.5A	2.2A	1.95A	1.1A
RIPPLE & NOISE p-p	80mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
LINE REGULATION	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
LOAD REGULATION	±3%	±3%	±3%	±2%	±2%	±2%	±2%	±2%	±2%
RATED OUTPUT POWER	26.4W	40W	40.5W	44.4W	44.6W	45W	45.6W	45.9W	48W
MAXIMUM OUTPUT POWER	RATED OUTPUT POWER FOR CONVECTION; 52W (+3.3V:35W) WITH 18 CFM MIN. FORCED AIR								
EFFICIENCY	69%	74%	75%	76%	77%	77%	78%	78%	78%
DC VOLTAGE ADJ.	+10,-5%								
INPUT VOLTAGE RANGE	90~264VAC 47~440Hz ; 120~370VDC								
AC CURRENT	1A/115V 0.7A/230V								
INRUSH CURRENT	COLD START 20A/115V 40A/230V								
LEAKAGE CURRENT	<0.5mA/240VAC								
OVERLOAD PROTECTION	53~75W (3.3V:36~55W) TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY								
OVER VOLTAGE PROTECTION	115%~135%								
TEMP. COEFFICIENT	±0.04% / °C (0~50°C)								
SETUP, RISE, HOLD UP TIME	800ms, 30ms, 20ms								
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES								
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms								
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH								
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH								
DIMENSION	127*76.2*30mm (L*W*H) PCB ONLY								
WEIGHT	0.23Kgs								
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED								
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2 VERIFICATION								

NOTE :
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2. TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT RELATED TO MAXIMUM OUTPUT POWER.
6. MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

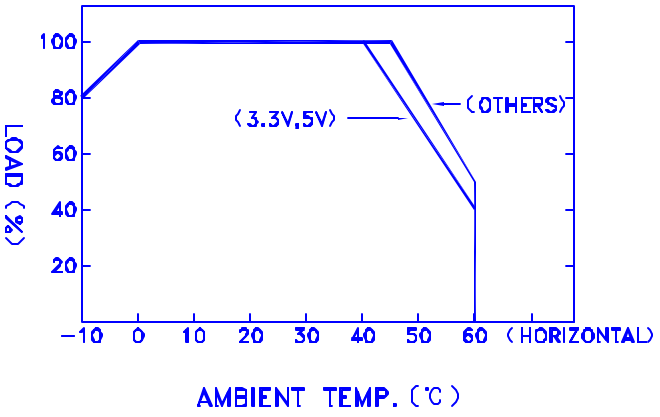
1999-07-27

BLOCK DIAGRAM

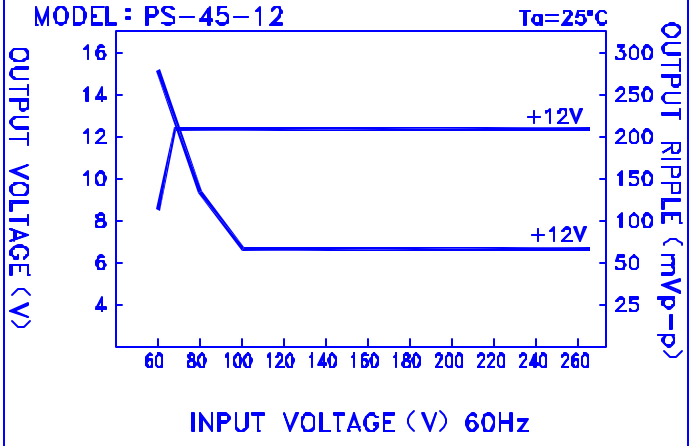


fosc : 65KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : MOLEX 5277-02
    PIN 1,2 : AC INPUT
  - CN2 : MOLEX 5273-06
    PIN 1,2,3 : DC OUTPUT +V
    PIN 4,5,6 : DC OUTPUT -V
- MATING CONNECTORS
  - CN1,2 MATING CONNECTOR TYPE MOLEX 5195 AND 5239 SERIES OR EQUIVALENT WITH MOLEX 5194 AND 5225 OR EQUIVALENT CRIMP TERMINALS.